Concise Explanation of Prior Art

(54)APPLICATION CONTAINER WITH COMB

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(57)Abstract

Such problem may also be solved, if the laminated container is provided at its desirable potion of the outer layer with a valved ambient air introduction port, i.e. a port having a check valve for refraining unfavorable reverse flow of the air upon compression of the laminated container, such that the ambient air introduction port is formed as a relatively large-diameter hole. As disclosed in Japanese patent Laid-Open No. 2000-41727, such a valved port may be formed at the neck portion of the laminated container and the check valve is provided at a favorable part of the container for shutting off the communication between the ambient air introduction port and the outside of the container upon squeezing its trunk portion. However, since the trunk portion of this container is formed deformable upon squeezing, it has other inconveniences. Firstly, it is difficult to print on the trunk portion, even though it is desired to do so in such a container. Secondly, although the container is also desired to be covered with a shrink film, the film is apt to be wrinkled by squeezing the container.

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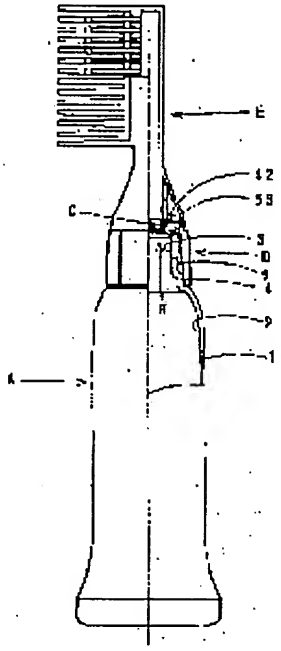
(54) APPLICATION CONTAINER WITH COMB

(57)Abstract:
PROBLEM TO BE SOLVED: To provide an application container with a comb for covering an outdoor air take-in hole on the upper wall/upper surface of a cap with a cover provided on the base part of a comb body.
SOLUTION: This application container with a comb is composed a delaminable container A and a cap D where the comb body E is attached to the upper part. Then, the cap D is composed of a fitting cylinder and an upper wall where a comb supporting cylinder is erected, an outdoor air take-in hole 42 communicated with an air introduction hole 9 provided on a container port cylinder part 3 through an air passage is perforated on the upper wall and an expanded ring for tightly sealing the shoulder peripheral wall of the container is projectingly provided on the lower end part inner periphery on the fitting cylinder. Then, the comb body E is composed of the comb and a base and a cover for covering the upper wall/upper surface of the cap D is disposed at the lower part of the base.



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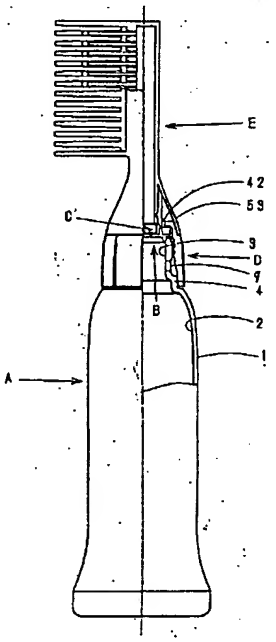
(54)【発明の名称】　櫛付塗布容器

(57)【要約】
【課題】　櫛体の基部に設けたカバーによってキャップの上壁上面の外気取入れ孔を被うようにした櫛付塗布容器を提供すること。
【解決手段】　デラミ容器と、上部に櫛体を取り付けたキャップとからなる櫛付塗布容器であって、前記キャップは、嵌着筒と櫛支持筒を立設した上壁とからなり、上壁には容器口筒部に設けられた空気導入孔と空気通路を介して連通する外気取入れ孔が穿設され、嵌着筒には下端部内周に容器の肩周壁を密封する膨出環が突設されており、前記櫛体は、櫛と基台とからなり、基台の下部にキャップの上壁上面を被うカバーを配設したことを特徴とする。



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【特許請求の範囲】

【請求項１】　デラミ容器と、上部に櫛体を取り付けたキャップとからなる櫛付塗布容器であって、

前記キャップは、嵌着筒と櫛支持筒を立設した上壁とからなり、上壁には容器口筒部に設けられた空気導入孔と空気通路を介して連通する外気取入れ孔が穿設され、嵌着筒には下端部内周に容器の肩周壁を密封する膨出環が突設されており、

前記櫛体は、櫛と基台とからなり、基台の下部にキャップの上壁上面を被うカバーを配設したことを特徴とする櫛付塗布容器。

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】本発明は、櫛付塗布容器、とくに容器口筒部に櫛を取り付けた整髪料、毛染め料等の毛髪用内容液の櫛付塗布容器に関する。

【０００２】

【従来の技術】整髪料、毛染め料等を収容したデラミ容器の口筒部に、弁体を取着した中栓を装着し、櫛体を取着したキャップを被嵌するようにした毛髪用内容液の塗布容器は、本発明の出願前に提案されている。

【０００３】

【発明が解決しようとする課題】塗布容器に使用されるデラミ容器は、押圧操作により変形され、その後に復元可能な可撓性を有する外側層と、該外側層から剥離自在、かつ変形自在の内袋とからなっており、容器を押圧したときに、押圧力によって内袋から中栓の吐出弁を介して櫛体に内容物を吐出するようにしている。その際、外側層と内袋との剥離層内に大気が導入されるとともに、導入された空気が、次の容器押圧時に大気中に押し戻されないようにするため、キャップの外周壁に内側に吸入弁を設けた外気取入れ孔を配設したキャップを用いている。そして、外気取入れ孔は、弁体の製造、取付構造を簡単にするため、通常にはキャップ上壁に設けられている。

【０００４】しかし、キャップの上壁上面に、内側に吸入弁を設けた外気取入れ孔を設けておくと、櫛から吐出され余った内容物が垂れ落ちて外気取入れ孔に入ったり、また垂れ落ちた内容物をふき取るときに注意しないと外気取入れ孔が部分的に塞がれるおそれがある。

【０００５】本発明は、櫛体の基部に設けたカバーによってキャップの上壁上面の外気取入れ孔を被うようにした櫛付塗布容器を提供することを目的とする。

【０００６】

【課題を解決するための手段】本発明は、櫛付塗布容器として、デラミ容器と、上部に櫛体を取り付けたキャップとからなる櫛付塗布容器であって、前記キャップは、嵌着筒と櫛支持筒を立設した上壁とからなり、上壁には容器口筒部に設けられた空気導入孔と空気通路を介して連通する外気取入れ孔が穿設され、嵌着筒には下端部内周に容器の肩周壁を密封する膨出環が突設されており、前記櫛体は、櫛と基台とからなり、基台の下部にキャップの上壁上面を被うカバーを配設した構成を採用する。

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【０００７】

【発明の実施の形態】図１において、Ａは整髪料、毛染め料等を収納したデラミ容器、Ｂは中栓、Ｃは中栓に取着された弁体、Ｄは弁体Ｃを取着した中栓Ｂを容器口筒部に取着するキャップ、ＥはキャップＤに取着された櫛体である。

【０００８】図２に示すように、デラミ容器Ａは、外側層１と該外側層１に剥離自在として積層された内側層２とを有し、口筒部３と該口筒部３に続く肩部４、胴部５と底部６よりなっている。外側層１は、押圧操作によって変形されるとともに、押圧を解いた時に復元され、容器の外観形状を維持するもので、素材として高密度ポリエチレンその他の可撓性樹脂が用いられる。内側層２は、外側層１から剥離自在かつ変形自在の内袋で、素材としてナイロン、ＥＶＯＨ等の柔軟性のある樹脂が用いられる。

【０００９】前記口筒部３外周には、上下方向に切欠部７を設けたネジ８が刻設されており、切欠部７の下方には、外側層１と内側層２との間に大気を導入する空気導入孔９が、外側層１に穿孔されている。口筒部４の上端には、上端面を被うよう内側層２により係止部１０が形成されており、内容液の吐出時に内側層２の沈み込みを防ぐようにしている。

【００１０】肩部４は、口筒部３に続く肩周壁１１を有しており、胴部５は、円形もしくは楕円形となっている。底部６には、底シール部１２に沿って凹部１３が設けられ、外側層１と同一の樹脂あるいはホットメルト接着剤等によってシール部を被覆接着するようにしている。

【００１１】図３に示すように、中栓Ｂは中央部に弁孔１５を穿設した基板１６と、該基板１６の外周から立設する側筒１７とを具えている。基板１６の上面には、基板１６の外周と側筒１７の内側に弁体支持筒１８が立設されており、基板１６の下面には、容器口筒部３内周に嵌着する嵌合筒１９が垂設されている。基板１６の周縁の所定個所には、側筒１７の一部を削り、側筒１７の内周と基板１６周縁下面とを連通させる連通孔２０が穿設されている。

【００１２】図４に示すように、弁体Ｃは、柔軟な合成樹脂、またはエラストマーによって成形されており、弁保持筒２１と、該弁保持筒２１の内外に形成された二つの弁からなっている。弁保持筒２１の下面内周には、吐出弁２２が複数の連結片２３を介して取着されており、連結片２３は、吐出弁２２の外周縁と弁保持筒２１の内周縁に沿って所定間隔毎に接続部を残して切り込みが入れられ、吐出弁２２と弁保持筒２１との間に周方向に延在するように形成されている。弁保持筒２１の外周に

は、外周からフランジ状に突出した吸入弁２４が突設されており、吸入弁２４の上面には、周縁近くに膨出環２５が突設されている。

【００１３】図５に示すように、キャップＤは、嵌着筒３０と、櫛支持筒３１を中央開口部に立設した上壁３２とを有している。嵌着筒３０の内周には、上部に中栓支持面３３が配設され、その内周下端には、膨出環３４が設けられている。中栓支持面３３の下方には、容器口筒部３のネジ８に螺合するネジ３５が刻設されており、ネジ３５刻設面の下部は、拡径されて肩部係合面３６が形成されている。前記中栓支持面３３、肩部係合面３６には、それぞれ膨出環３７、３８が設けられている。

【００１４】嵌着筒３０の外周は段部３９が設けられ、上方部は下部より縮径され、上壁３２に続くほぼ円錐形状の上筒４０となっている。嵌着筒３０の下方部は、所定の間隔をおいて複数個の突条４１が設けられている。上壁３２の所定個所には、外気取入れ孔４２が穿孔されており、上壁３２の下面には、環状の弁係止溝４３が刻設されている。

【００１５】櫛支持筒３１は、上壁３２の内周縁より上方に延びており、上壁３２内周縁下面には、弁保持筒２１の係止部４４が設けられている。係止部４４の上方には、内方に突出する係止片４５が設けられており、その上方には、複数の凹条４６が刻設されている。

【００１６】図６に示すように、櫛体Ｅは、基台５０と基台５０に取着された櫛５１とからなっている。基台５０は、その下端部に取付筒５２と傘状カバー５３とを有している。基台５０の内部は、液通路５４となっており、取付筒５２の下端外周には、前記櫛支持筒３１の係止部４４に係合するよう膨出部５５が設けられており、取付筒５２の上方外周には、前記凹条４６に係合する多数の突条５６が設けられている。

【００１７】傘状カバー５３は、前記キャップＤの上筒４０と上壁３２とを被うようになっており、傘状カバー５３の内周下方部には、所定の間隔をおいて多数のリブ５７が突設されて、上筒４０外周に接するようになっている。櫛５１は、内部に流路孔５８を設け、所定位置に吐出孔５９を設けた多数の櫛歯６０と、各櫛歯６０を連結する連結板６１とからなっており、各櫛歯６０の根元部６２は、基台５０に設けられた挿入孔６３に嵌挿され、連結板６１の根元側の側面は、基台５０の側面に接合されている。

【００１８】次に、本塗布容器の組立と容器を構成する各部品の関係について、図７を参照して説明する。塗布容器の組立にあたっては、まず、弁体Ｃが中栓Ｂに取り付けられる。その際、弁保持筒２１は、中栓Ｂの弁体支持筒１８に嵌着され、弁保持筒２１の下端は、中栓Ｂの基板１６に圧接される。そして、吐出弁２２の下面は、中栓Ｂの基板１６に接合され、吐出弁２２は基板１６の中央部の弁孔１５を塞ぐことになる。

【００１９】次に、弁体Ｃを取り付けた中栓Ｂをキャップ内に組み込む。その際、中栓Ｂ基板１６の下面周縁は、中栓支持面３３の下端の膨出環３７で押さえられ、側筒１７は、上壁３２の下面と膨出環３７との間で中栓支持面３３に支持される。弁保持筒２１の上端は、上壁３２の係止部４４に係止され、吸入弁２４が上壁３２下面に圧接され、外気取入れ孔４２を塞ぐことになる。

【００２０】次に、櫛体Ｅの基台５０の取付筒５２を、キャップＤの櫛支持筒３１に嵌着する。その際、突条５６が凹条４６に係合して廻動が阻止され、周方向と上下方向に位置決めされる。それとともに、傘状カバー５３のリブ５７が、キャップＤの上筒４０外周に圧接され、傘状カバー５３の下端と嵌着筒３０の段部３９との間に一定の隙間を形成して嵌着され、上筒４０と傘状カバー５３との間に空気通路を形成する。かくして、弁体Ｃ、中栓Ｂ、櫛体Ｅをセットした櫛を取付けたキャップＤが得られる。

【００２１】次に、櫛を取付けたキャップＤを容器口筒部３に螺着する。その際、中栓Ｂの嵌合筒１９は、口筒部３内周に嵌合されて容器口筒部３を密封する。キャップＤを締め終わったときには、中栓Ｂの基板１６が口筒部３上端を押圧すると同時にキャップＤは一定の廻動位置に位置決めされる。

【００２２】嵌着筒３０下端内周の肩部係合面３６は、容器肩部４の肩周壁１１に一定の締め代をもって嵌合されるとともに、膨出環３８によって完全に密封される。そして、矢印で示すように、傘状カバー５３とキャップＤの上筒４０との間、キャップ上壁３２の外気取入れ孔４２、連通孔２０、口筒部３のネジ８の切欠部７を通じて、外気と容器口筒部３の空気導入孔９との間に空気通路Ｘが形成される。

【００２３】次に、本櫛付塗布容器の使用態様と構成に基づく作用効果について説明する。デラミ容器には、内容液として、粘性物、液体状の整髪料、毛染め料等が収納されており、仮蓋用キャップによりパッキンＰを挟んで被嵌され、弁体Ｃ、中栓Ｂ、櫛体Ｅをセットした櫛を取付けたキャップＤとともに市場に販売提供される。使用にあたって、容器の仮蓋用キャップを取り外し、櫛を取付けたキャップＤに着け替える。

【００２４】デラミ容器Ａを押圧すると、内圧の上昇により吐出弁２２が開かれ、容器内の内容物が、基台５０内の液通路５４を通って各櫛歯６０に送られ、各吐出孔５９より吐出される。次いで、押圧が解かれると、容器胴部５が復元し容器内が減圧され、減圧に応じて、吐出弁２２が閉じ、吸入弁２４が開かれ、外気取入れ孔４２から大気が吸い込まれ、空気通路Ｘを通って空気導入孔９に導入される。空気導入孔９から内側層２と外側層１との間に大気が吸入され、内側層２が剥離され剥離層が形成される。外側層１が完全に復元し、剥離層内の内圧が外気に等しくなると、空気の流通がなくなり、吸入弁

２４も閉じられる。

【００２５】次に、デラミ容器Ａを再押圧すると容器内の内圧が高くなるが、剥離層内の空気は吸入弁２４が閉じられているので排出されることはなく、内圧の上昇に応じて吐出弁２２が開かれ、内容物が各櫛歯６０の吐出孔５９より吐出される。かくして、容器の押圧に応じ、押圧量に応じた内容液が吐出される。

【００２６】使用途中、または使用後に容器を立てておくと、余った内容液が基台５０を伝わって垂れるが、表面が滑らかな傘状カバー５３であるので、液を容易にふき取ることができ、その際、余分の液がキャップの上壁３２に付着することもないので、外気取入れ孔４２が付着した液によって塞がれることはない。

【００２７】前記実施形態では、カバーを、櫛体の基台５０下端部から傘状に拡がる傘状カバー５３としているが、別実施形態として取付筒５２の上方部分からフランジ状にひろがる上壁とその周縁から垂下する筒体からなるカバー体（図示しない）でもよい。また、カバーの構成は、キャップ上壁３２に穿孔された外気取入れ孔４２を被う部材を有すればよく、上記各実施形態として示したものに限定されない。

【００２８】

【発明の効果】本発明は、上記のように構成されているから、次の効果を奏する。キャップ内側に吸入弁を設けた外気取入れ孔を配設し、外気取入れ孔と容器口筒部の空気導入孔とを空気通路によって連通しているので、デラミ容器の押圧操作によって押圧量に応じた内容液を櫛から吐出することができる。キャップの上壁をカバーで被うようにしているので、基台を伝わって垂れた内容液によって、外気取入れ孔が塞がれることはない。

【図面の簡単な説明】

【図１】本発明の塗布容器の一部断面正面図である。

【図２】デラミ容器の説明図で、（ａ）は平面図、（ｂ）は一部断面正面図である。

【図３】中栓の一部断面正面図である。

【図４】弁体の説明図で、（ａ）は平面図、（ｂ）は一部断面正面図である。

【図５】キャップの説明図で、（ａ）は平面図、（ｂ）は一部断面正面図である。

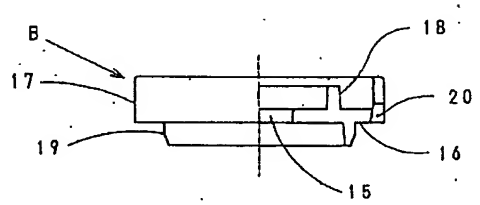
【図６】櫛体の説明図で、（ａ）は一部断面正面図、＊（ｂ）は底面図である。

【図７】塗布容器の主要部の説明図である。

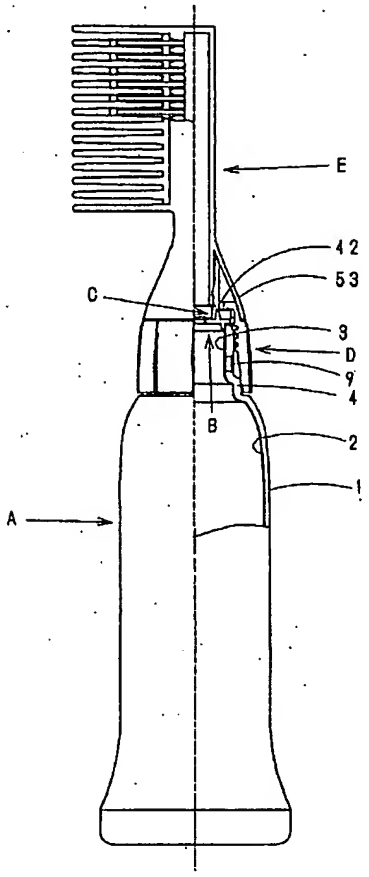
【符号の説明】

Ａ	デラミ容器
Ｂ	中栓
Ｃ	弁体
Ｄ	キャップ
Ｅ	櫛体
Ｘ	空気通路
１	外側層
２	内側層
３	口筒部
７	切欠部
８	ネジ
９	空気導入孔
１５	弁孔
１６	基板
１７	側筒
１８	弁体支持筒
２１	弁保持筒
２２	吐出弁
２３	連結片
２４	吸入弁
３０	嵌着筒
３１	櫛支持筒
３２	上壁
３３	中栓支持面
３９	段部
４０	上筒
４２	外気取入れ孔
４３	弁係止溝
５０	基台
５１	櫛
５２	取付筒
５３	傘状カバー
５７	リブ
５８	流路孔
５９	吐出孔
６０	櫛歯
６１	連結板

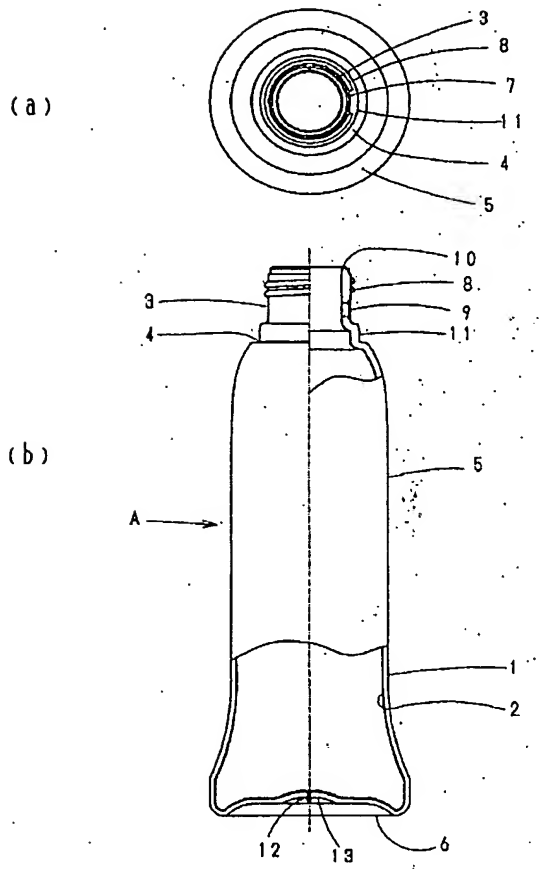
【図３】



【図1】


E
42
53
C
3
D
9
4
B
2
1
A

【図2】


(a)
3
8
7
11
4
5
(b)
10
8
9
11
3
4
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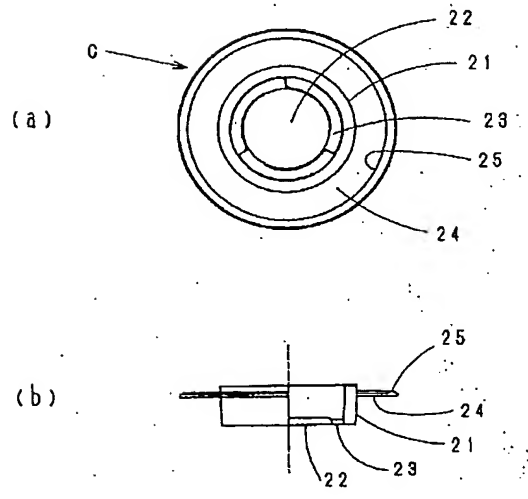
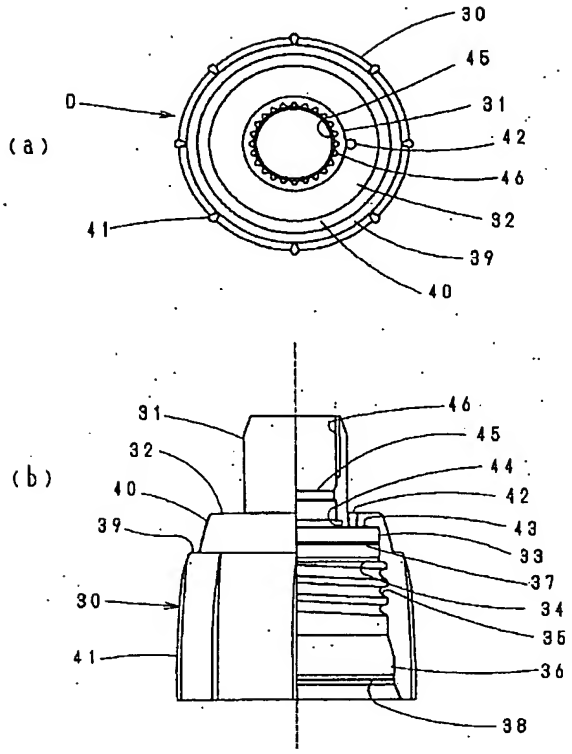
A
1
2
12
13
6

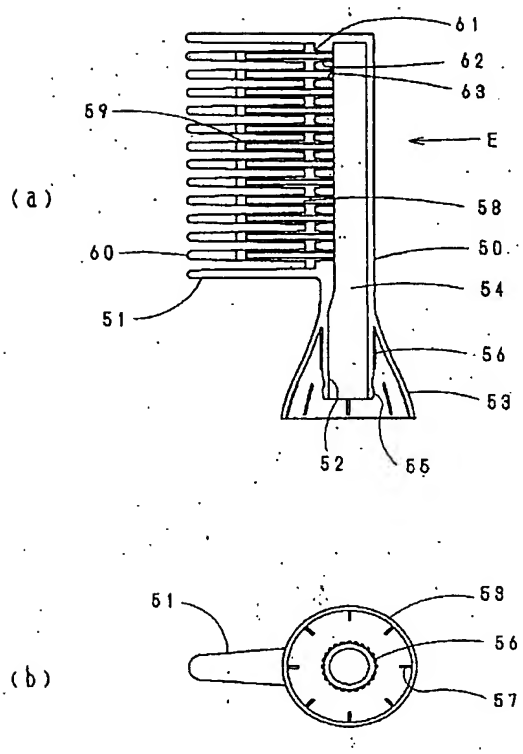
【図4】


(a)
C
22
21
23
25
24
(b)
25
24
21
23
22

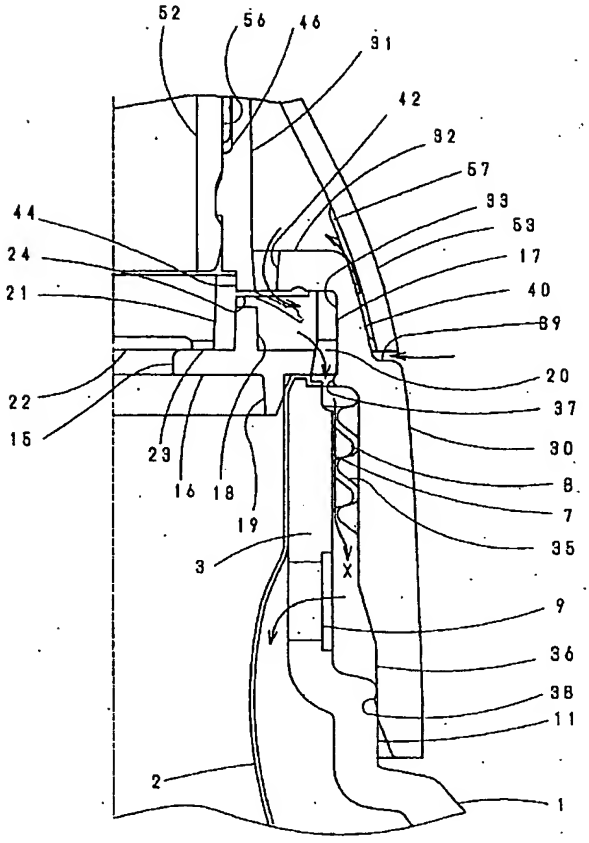
【図５】


(a)
D
30
45
31
42
46
32
39
40
41
(b)
31
32
40
39
30
41
46
45
44
42
43
33
37
34
35
36
38

【図６】


(a)
61
62
63
59
E
58
60
50
54
51
56
53
52
55
(b)
51
58
56
57

【図７】



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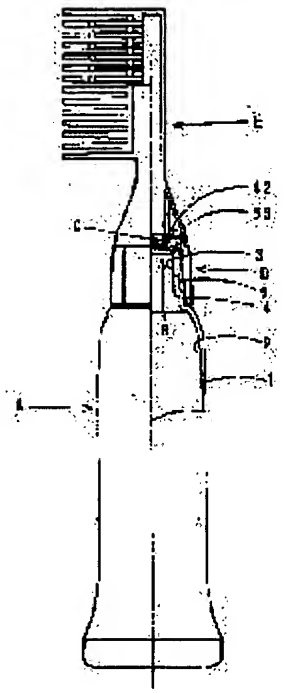
(54) APPLICATION CONTAINER WITH COMB

(57)Abstract:
PROBLEM TO BE SOLVED: To provide an application container with a comb for covering an outdoor air take-in hole on the upper wall/upper surface of a cap with a cover provided on the base part of a comb body.
SOLUTION: This application container with a comb is composed a delaminable container A and a cap D where the comb body E is attached to the upper part. Then, the cap D is composed of a fitting cylinder and an upper wall where a comb supporting cylinder is erected, an outdoor air take-in hole 42 communicated with an air introduction hole 9 provided on a container port cylinder part 3 through an air passage is perforated on the upper wall and an expanded ring for tightly sealing the shoulder peripheral wall of the container is projectingly provided on the lower end part inner periphery on the fitting cylinder. Then, the comb body E is composed of the comb and a base and a cover for covering the upper wall/upper surface of the cap D is disposed at the lower part of the base.



LEGAL STATUS

[Date of request for examination]

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[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of

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CLAIMS

[Claim(s)]
[Claim 1] It is the spreading container with a comb which consists of a DERAMI container and a cap which attached the comb in the upper part. Said cap Consist of a upper wall which set up the attachment cylinder and the comb support cylinder, and the air installation hole prepared in the container opening cylinder part and the open air introduction hole which is open for free passage through an air duct are drilled by the upper wall. It is the spreading container with a comb characterized by arranging covering which the bulge ring which seals the shoulder peripheral wall of a container protrudes on the attachment cylinder at lower limit section inner circumference, and said comb consists of a comb and a pedestal, and is wearing the upper wall top face of a cap in the lower part of a pedestal.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the spreading container with a comb of the contents liquid for hair, such as a charge for a haircut which attached the comb in the spreading container with a comb, especially the container opening cylinder part, and a charge of hair coloring.
[0002]
[Description of the Prior Art] The opening cylinder part of the DERAMI container which held the charge for a haircut, the charge of hair coloring, etc. is equipped with the inside plug which attached the valve element, and the spreading container of the contents liquid for hair which inserted in the cap which attached the comb is proposed before application of this invention.
[0003]
[Problem(s) to be Solved by the Invention] The DERAMI container used for a spreading container is deformed by press actuation, consists of an outside layer which has the flexibility which can be restored after that, and a PE liner in which exfoliation ease and a browning form are free from this outside layer, and when a container is pressed, it is made to carry out the regurgitation of the contents to a comb by thrust through the discharge valve of an inside plug from the PE liner. While atmospheric air is introduced in the stratum disjunctum of an outside layer and a PE liner in that case, in order not to put back the introduced air into atmospheric air at the time of the next container press, the cap which arranged the open air introduction hole which prepared the suction valve portion inside is used for the peripheral wall of a cap. And the open air introduction hole is prepared in the cap upper wall usual in order to simplify manufacture of a valve element, and attachment structure.
[0004] However, if not careful when going into an open air introduction hole and wiping off the contents which the contents which were breathed out from the comb and remained in it when the open air introduction hole which prepared the suction valve portion inside was prepared in the upper wall top face of a cap hung down and fell, and hung down and fell, there is a possibility that an open air introduction hole may be closed partially.
[0005] This invention aims at offering the spreading container with a comb which covered the open air introduction hole on the top face of a upper wall of a cap with covering prepared in the base of a comb.
[0006]
[Means for Solving the Problem] This invention is a spreading container with a comb which consists of a DERAMI container and a cap which attached the comb in the upper part as a spreading container with a comb. Said cap Consist of a upper wall which set up the attachment cylinder and the comb support cylinder, and the air installation hole prepared in the container opening cylinder part and the open air introduction hole which is open for free passage through an air duct are drilled by the upper wall. The bulge ring which seals the shoulder peripheral wall of a container protrudes on the attachment cylinder at lower limit section inner circumference, said comb consists of a comb and a pedestal and the configuration which arranged covering which is wearing the upper wall top face of a cap in the lower part of a pedestal is used for it.
[0007]
[Embodiment of the Invention] In drawing 1 , the cap which attaches in a container opening cylinder part the valve element by which the DERAMI container with which A contained the charge for a haircut, the charge of hair coloring, etc., and B were attached in the inside plug, and C was attached in the inside plug, and the inside plug B in which D attached the valve element C, and E are the combs attached in Cap D.
[0008] As shown in drawing 2 , the DERAMI container A has the inside layer 2 by which the laminating was carried out to the outside layer 1 and this outside layer 1 as exfoliation being free, and consists of the opening cylinder part 3, the

shoulder 4 and drum section 5 following this opening cylinder part 3, and a pars basilaris ossis occipitalis 6. While the outside layer 1 is deformed by press action, it is restored when press is solved, and the appearance configuration of a container is maintained, and the flexible resin of high density polyethylene and others is used as a material. The resin which whose inside layer 2 is the PE liner in which the browning form which can be exfoliated is free from the outside layer 1, and has flexibility, such as nylon and EVOH, as a material is used.

[0009] The screw 8 which formed the notch 7 in the vertical direction is engraved on said opening cylinder part 3 periphery, and the air installation hole 9 which introduces atmospheric air between the outside layer 1 and the inside layer 2 is punched under the notch 7 at the outside layer 1. The stop section 10 is formed in the upper limit of the opening cylinder part 4 of the inside layer 2 so that an upper limit side may be worn, and he is trying to prevent subduction of the inside layer 2 at the time of the regurgitation of contents liquid.

[0010] The shoulder 4 has the shoulder peripheral wall 11 following the opening cylinder part 3, and serves as that a drum section 5 is circular or an ellipse form. In a pars basilaris ossis occipitalis 6, a crevice 13 is established along with the bottom seal section 12, and it is made to carry out covering adhesion of the seal section with same resin or hot melt adhesive as the outside layer 1 etc. at it.

[0011] As shown in drawing 3 , the inside plug B is equipped with the substrate 16 which drilled the valve port 15 in the center section, and the side cylinder 17 set up from the periphery of this substrate 16. The valve element support cylinder 18 is set up the periphery of a substrate 16, and inside the side cylinder 17, and the fitting cylinder 19 attached in container opening cylinder part 3 inner circumference is installed in the inferior surface of tongue of a substrate 16 by the top face of a substrate 16. Some side cylinders 17 are shaved in the predetermined part of the periphery of a substrate 16, and the free passage hole 20 which makes the inner circumference of the side cylinder 17 and a substrate 16 periphery inferior surface of tongue open for free passage is drilled in it.

[0012] As shown in drawing 4 , the valve element C is fabricated by flexible synthetic resin or the elastomer, and consists of two valves formed within and without the valve maintenance cylinder 21 and this valve maintenance cylinder 21. The discharge valve 22 is attached through two or more pieces 23 of connection, and the piece 23 of connection leaves a connection to the inferior-surface-of-tongue inner circumference of the valve maintenance cylinder 21 for every predetermined spacing along the periphery edge of a discharge valve 22, and the inner circumference edge of the valve maintenance cylinder 21, is put into slitting, and it is formed in it so that it may extend between a discharge valve 22 and the valve maintenance cylinder 21 in a hoop direction. The suction valve portion 24 projected in the shape of a flange protrudes on the periphery of the valve maintenance cylinder 21 from the periphery, and the bulge ring 25 protrudes on the top face of a suction valve portion 24 near the periphery.

[0013] As shown in drawing 5 , Cap D has the attachment cylinder 30 and the upper wall 32 which set up the comb support cylinder 31 to central opening. The inside plug back face 33 is arranged in the upper part by the inner circumference of the attachment cylinder 30, and the bulge ring 34 is formed in the inner circumference lower limit. Under the inside plug back face 33, the screw 35 screwed in the screw 8 of the container opening cylinder part 3 is engraved, the diameter of the lower part of a screw 35 engraving side is expanded, and the shoulder engagement side 36 is formed. The bulge rings 37 and 38 are formed in said inside plug back face 33 and the shoulder engagement side 36, respectively.

[0014] as for the periphery of the attachment cylinder 30, a step 39 is formed, the diameter of the upper part section is reduced from the lower part, and a upper wall 32 is followed -- it is the upper cylinder 40 of a cone configuration mostly. The lower part section of the attachment cylinder 30 sets predetermined spacing, and two or more protruding lines 41 are formed. The open air introduction hole 42 is punched and the annular valve stop slot 43 is engraved on the predetermined part of a upper wall 32 by the inferior surface of tongue of a upper wall 32.

[0015] The comb support cylinder 31 is prolonged more nearly up than the inner circumference edge of a upper wall 32, and the stop section 44 of the valve maintenance cylinder 21 is formed in the upper wall 32 inner-circumference marginal inferior surface of tongue. The piece 45 of a stop which projects in the inner direction is formed above the stop section 44, and two or more concave streaks 46 are engraved on the upper part.

[0016] As shown in drawing 6 , Comb E consists of a comb 51 attached in the pedestal 50 and the pedestal 50. The pedestal 50 has the attachment cylinder 52 and the umbrella-like covering 53 in the lower limit section. The interior of a pedestal 50 serves as the liquid path 54, the bulge section 55 is formed in the lower limit periphery of the attachment cylinder 52 so that it may engage with the stop section 44 of said comb support cylinder 31, and the protruding line 56 of a large number which engage with said concave streak 46 is formed in the upper part periphery of the attachment cylinder 52.

[0017] The upper cylinder 40 and upper wall 32 of said cap D are covered, predetermined spacing is set in the inner circumference lower part section of the umbrella-like covering 53, many ribs 57 protrude on it, and the umbrella-like

covering 53 touches upper cylinder 40 periphery. The comb 51 consists of a connecting plate 61 which connects the ctenidium 60 and each ctenidium 60 of large number which formed the passage hole 58 in the interior and formed the discharge opening 59 in the predetermined location, root Motobe 62 of each ctenidium 60 is fitted in the insertion hole 63 prepared in the pedestal 50, and the side face by the side of the root of a connecting plate 61 is joined by the side face of a pedestal 50.

[0018] Next, the assembly of this spreading container and the relation of each part article which constitutes a container are explained with reference to drawing 7 . In the assembly of a spreading container, a valve element C is first attached in an inside plug B. In that case, the valve maintenance cylinder 21 is attached in the valve element support cylinder 18 of an inside plug B, and the pressure welding of the lower limit of the valve maintenance cylinder 21 is carried out to the substrate 16 of an inside plug B. And the inferior surface of tongue of a discharge valve 22 will be joined to the substrate 16 of an inside plug B, and a discharge valve 22 will plug up the valve port 15 of the center section of a substrate 16.

[0019] Next, the inside plug B which attached the valve element C is incorporated in Cap D. In that case, the inferior-surface-of-tongue periphery of the inside plug B substrate 16 is pressed down with the bulge ring 37 of the lower limit of the inside plug back face 33, and the side cylinder 17 is supported by the inside plug back face 33 between the inferior surface of tongue of a upper wall 32, and the bulge ring 37. The upper limit of the valve maintenance cylinder 21 is stopped by the stop section 44 of a upper wall 32, the pressure welding of the suction valve portion 24 will be carried out to upper wall 32 inferior surface of tongue, and it will close the open air introduction hole 42.

[0020] Next, the attachment cylinder 52 of the pedestal 50 of Comb E is attached in the comb support cylinder 31 of Cap D. In that case, a protruding line 56 engages with a concave streak 46, rotation is prevented, and it is positioned in a hoop direction and the vertical direction. With it, a pressure welding is carried out to upper cylinder 40 periphery of Cap D, the rib 57 of the umbrella-like covering 53 forms a fixed clearance between the lower limit of the umbrella-like covering 53, and the step 39 of the attachment cylinder 30, and is attached in it, and an air duct is formed between the upper cylinder 40 and the umbrella-like covering 53. The cap D which attached the comb which set the valve element C, the inside plug B, and Comb E in this way is obtained.

[0021] Next, the cap D furnished with a comb is screwed on the container opening cylinder part 3. In that case, fitting of the fitting cylinder 19 of an inside plug B is carried out to opening cylinder part 3 inner circumference, and it seals the container opening cylinder part 3. When finishing fastening Cap D, Cap D is positioned in a fixed rotation location at the same time the substrate 16 of an inside plug B presses opening cylinder part 3 upper limit.

[0022] It is completely sealed by the bulge ring 38 while fitting of the shoulder engagement side 36 of attachment cylinder 30 lower-limit inner circumference is carried out to the shoulder peripheral wall 11 of the container shoulder 4 with a fixed interference. And as an arrow head shows, an air duct X is formed between the umbrella-like covering 53 and the upper cylinder 40 of Cap D through the notch 7 of the screw 8 of the open air introduction hole 42 of the cap upper wall 32, the free passage hole 20, and the opening cylinder part 3 between the open air and the air installation hole 9 of the container opening cylinder part 3.

[0023] Next, the operation effectiveness based on the use mode and configuration of a spreading container with **** is explained. As contents liquid, the charge for a haircut of the shape of a viscous object and a liquid, the charge of hair coloring, etc. are contained by the DERAMI container, it is inserted in it on both sides of Packing P with the cap for false caps, and selling offer is made in a commercial scene with the cap D furnished with the comb which set the valve element C, the inside plug B, and Comb E. In use, the cap for false caps of a container is removed and it sticks to the cap D furnished with a comb again.

[0024] If the DERAMI container A is pressed, a discharge valve 22 is opened by the rise of internal pressure, and the contents in a container will be sent to each ctenidium 60 through the liquid path 54 within a pedestal 50, and will be breathed out from each discharge opening 59. Subsequently, if press is solved, the container drum section 5 reverts, the inside of a container is decompressed, a discharge valve 22 will close according to reduced pressure, a suction valve portion 24 will be opened, atmospheric air will be inhaled from the open air introduction hole 42, and it will be introduced into the air installation hole 9 through an air duct X. Atmospheric air is inhaled between the inside layer 2 and the outside layer 1 from the air installation hole 9, the inside layer 2 exfoliates, and stratum disjunctum is formed. If the outside layer 1 reverts completely and the internal pressure in stratum disjunctum becomes equal to the open air, circulation of air will be lost and a suction valve portion 24 will also be closed.

[0025] Next, although the internal pressure in a container will become high if the DERAMI container A is re-pressed, since the suction valve portion 24 is closed, the air in stratum disjunctum is not discharged, a discharge valve 22 is opened according to the rise of internal pressure, and contents are breathed out from the discharge opening 59 of each ctenidium 60. In this way, according to press of a container, the contents liquid according to the amount of press is

breathed out.
[0026] Since liquid can be easily wipe[redacted]f since it is the umbrella-like covering 5[redacted]ith a smooth front face and excessive liquid will not adhere to the upper wall 32 of a cap in that case although surplus contents liquid transmits for it and hangs down a pedestal 50 if the container is stood after use in the middle of use, it is not closed by the liquid to which the open air introduction hole 42 adhered.
[0027] Although covering is considered as the umbrella-like covering 53 which spreads in the shape of an umbrella from the pedestal 50 lower-limit section of a comb with said operation gestalt, the covering object (not shown) which consists of a upper wall which spreads in the shape of a flange from the upper part part of the attachment cylinder 52, and a barrel which hangs from the periphery as an another operation gestalt is sufficient. Moreover, the configuration of covering is not limited to what was shown as each above-mentioned operation gestalt that what is necessary is just to have the member which covers the open air introduction hole 42 punched at the cap upper wall 32.
[0028]
[Effect of the Invention] Since this invention is constituted as mentioned above, it does the following effectiveness so. Since the open air introduction hole which prepared the suction valve portion in the cap inside is arranged and the open air introduction hole and the air installation hole of a container opening cylinder part are opened for free passage by the air duct, the regurgitation of the contents liquid according to the amount of press can be carried out from a comb by press actuation of a DERAMI container. Since he is trying to cover the upper wall of a cap with covering, an open air introduction hole is not closed by the contents liquid which was transmitted and hung down the pedestal.

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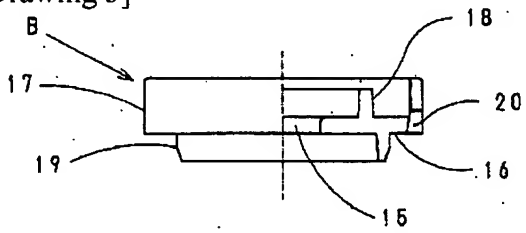
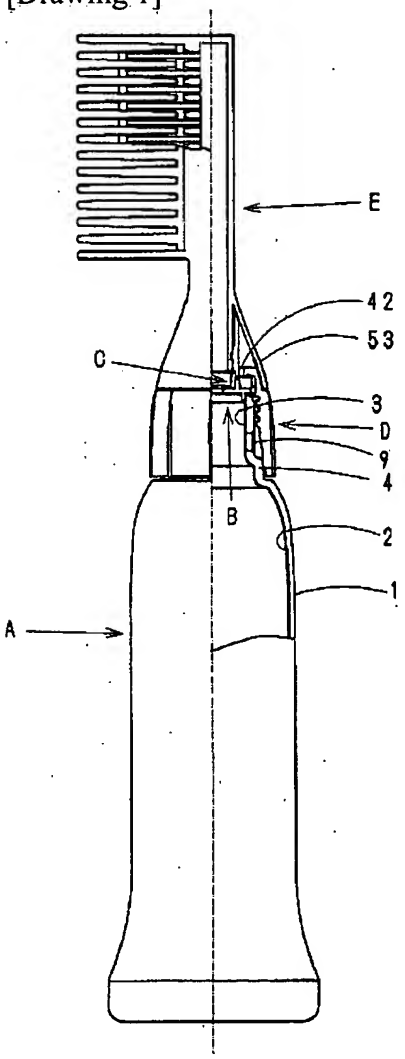
DRAWINGS

[Drawing 3]

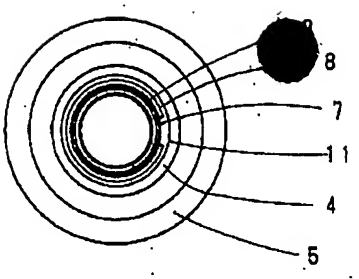


[Drawing 1]

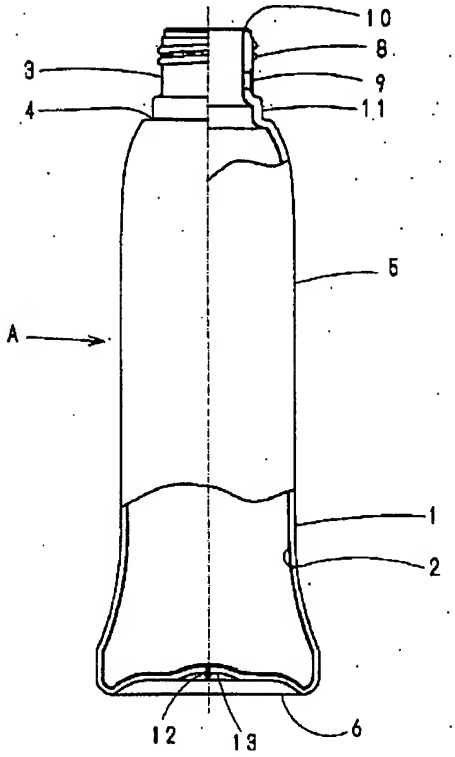


[Drawing 2]

(a)

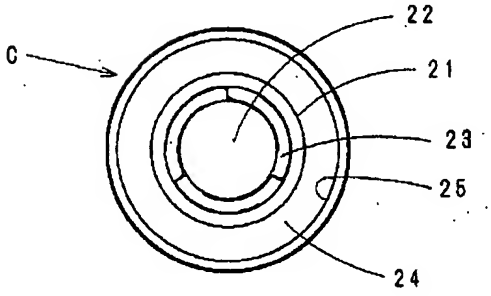


(b)

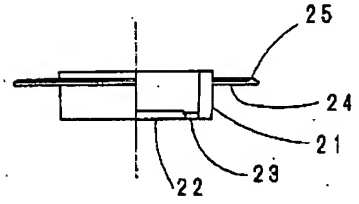


[Drawing 4]

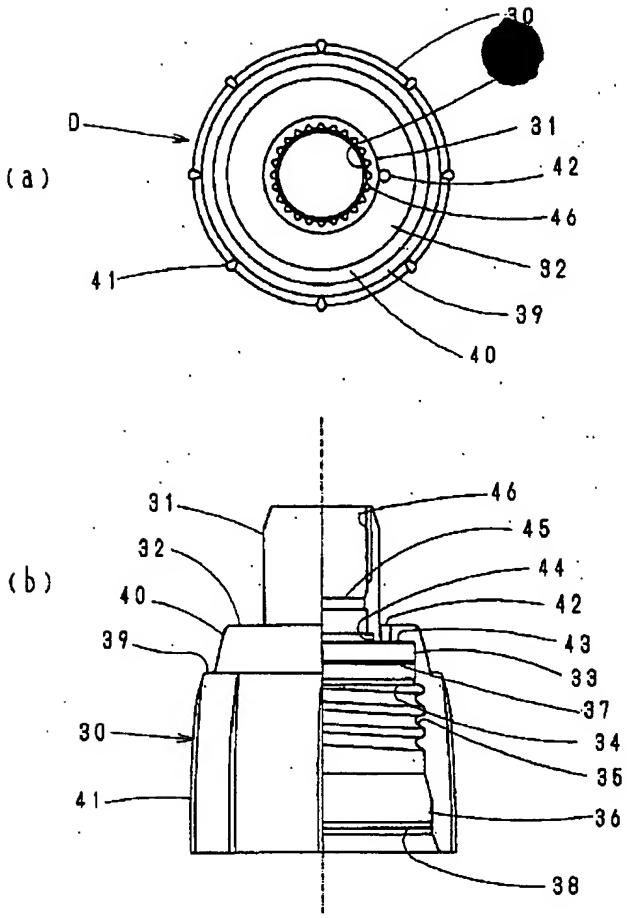
(a)



(b)



[Drawing 5]


(a)
30
D
31
42
46
32
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39
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(b)
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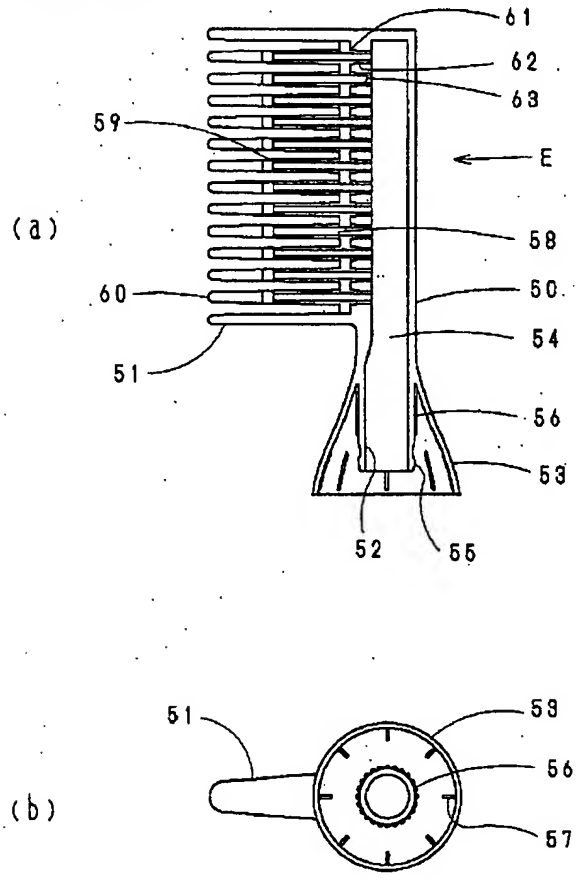
[Drawing 6]


(a)
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62
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(b)
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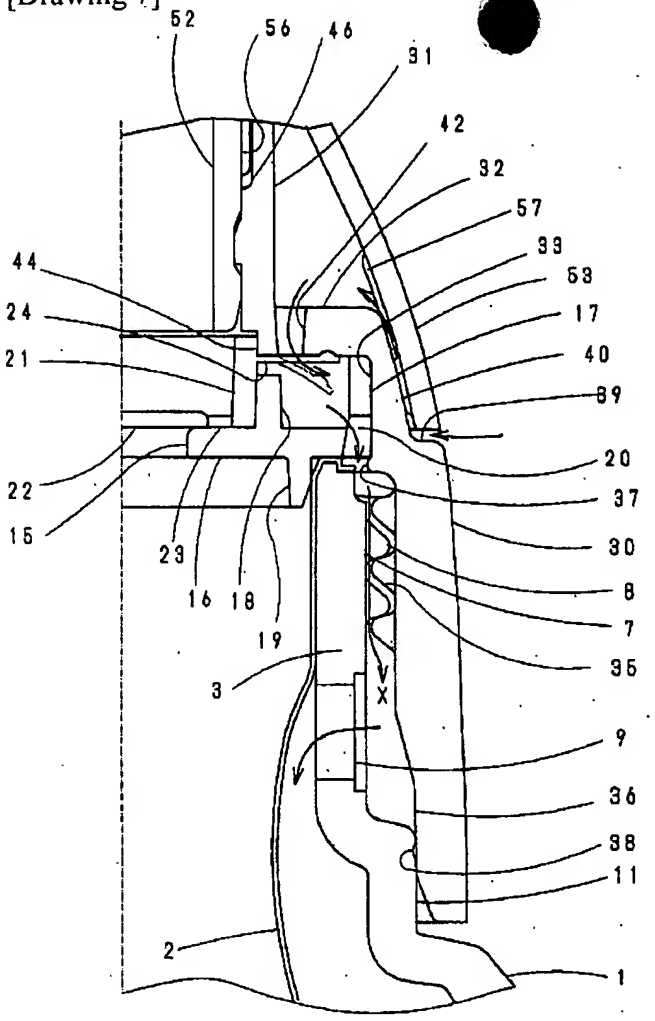
[Drawing 7]



[Translation done.]